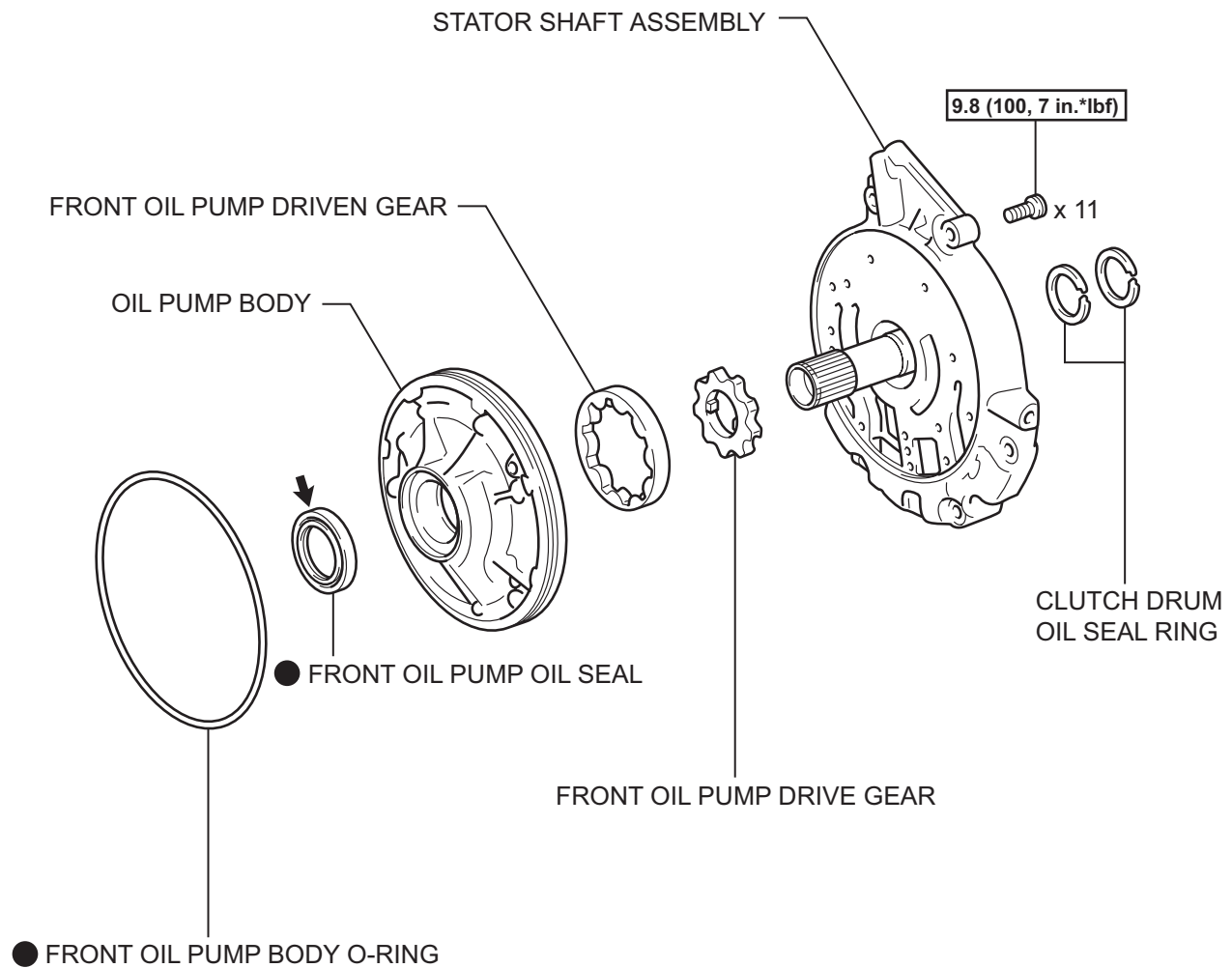


# OIL PUMP

## COMPONENTS

AX



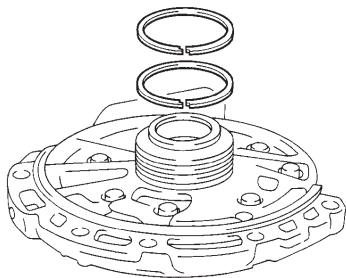
N\*m (kgf\*cm, ft.\*lbf) : Specified torque

● Non-reusable part

← Apply petroleum jelly

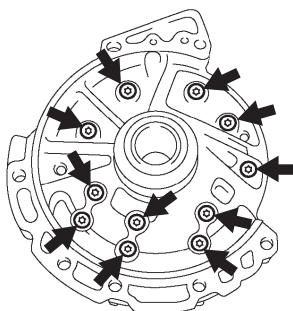
## DISASSEMBLY

1. **INSPECT OIL PUMP ASSEMBLY** (See page [AX-219](#))
2. **REMOVE CLUTCH DRUM OIL SEAL RING**
  - (a) Remove the 2 clutch drum oil seal rings.



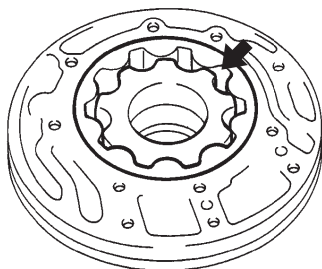
D003650E02

3. **REMOVE STATOR SHAFT ASSEMBLY**
  - (a) Using a T30 "torx" socket, remove the 11 bolts and stator shaft.
4. **INSPECT CLEARANCE OF OIL PUMP ASSEMBLY** (See page [AX-219](#))



D003651E01

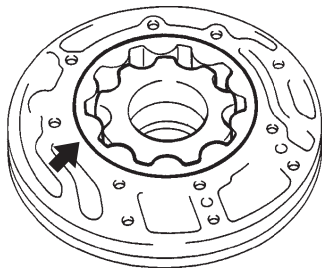
5. **REMOVE FRONT OIL PUMP DRIVE GEAR**
  - (a) Remove the front oil pump drive gear.



N

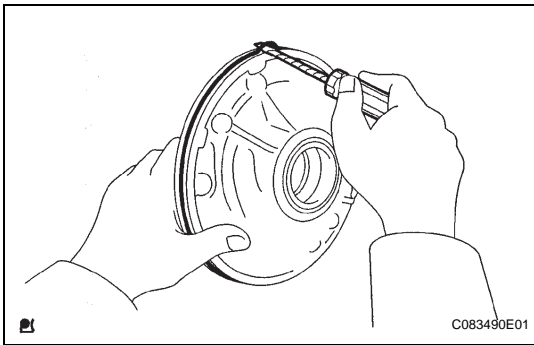
D009206E11

6. **REMOVE FRONT OIL PUMP DRIVEN GEAR**
  - (a) Remove the front oil pump driven gear.



N

D009206E10

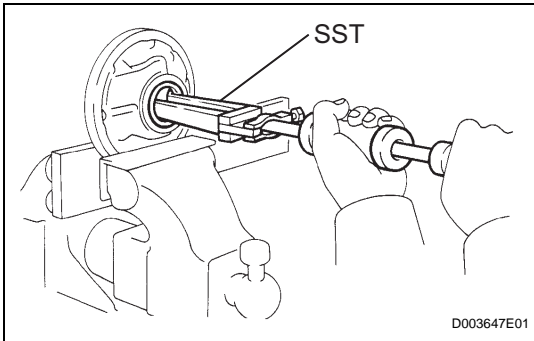


## 7. REMOVE FRONT OIL PUMP BODY O-RING

- (a) Using a screwdriver, pry out the O-ring.

HINT:

Tape the screwdriver before use.



## 8. REMOVE FRONT OIL PUMP OIL SEAL

- (a) Mount the oil pump in a soft jaw vise.

- (b) Using SST, tap out the oil seal from the oil pump body.

**SST 09308-00010**

## 9. INSPECT FRONT OIL PUMP AND GEAR BODY SUB-ASSEMBLY (See page AX-220)

## 10. INSPECT STATOR SHAFT ASSEMBLY (See page AX-221)

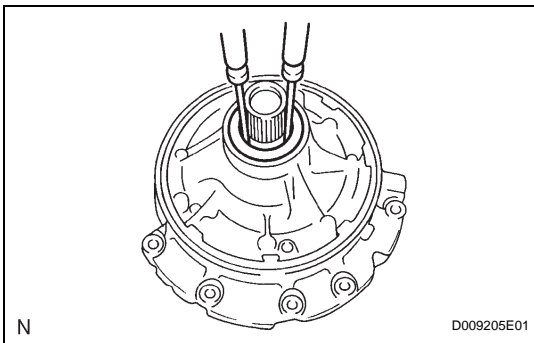
# INSPECTION

## 1. INSPECT OIL PUMP ASSEMBLY

- (a) Turn the drive gear with 2 screwdrivers and make sure it rotates smoothly.

**NOTICE:**

**Be careful not to damage the oil seal lip.**



## 2. INSPECT CLEARANCE OF OIL PUMP ASSEMBLY

- (a) Push the driven gear to one side of the body. Using a feeler gauge, measure the clearance.

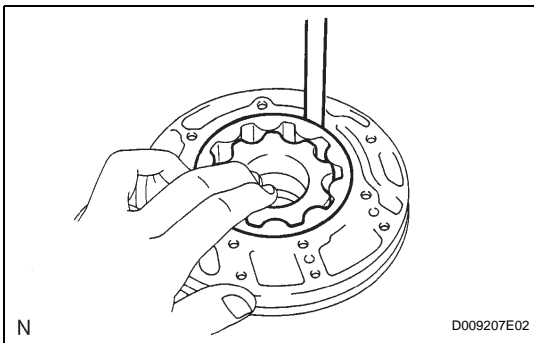
**Standard body clearance:**

**0.10 to 0.17 mm (0.0039 to 0.0067 in.)**

**Maximum body clearance:**

**0.17 mm (0.0067 in.)**

If the body clearance is greater than the maximum, replace the oil pump body sub-assembly.



- (b) Measure the tip clearance between the driven gear teeth and drive gear teeth.

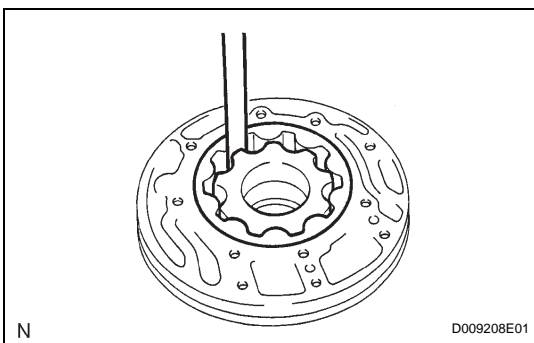
**Standard tip clearance:**

**0.07 to 0.15 mm (0.0028 to 0.0059 in.)**

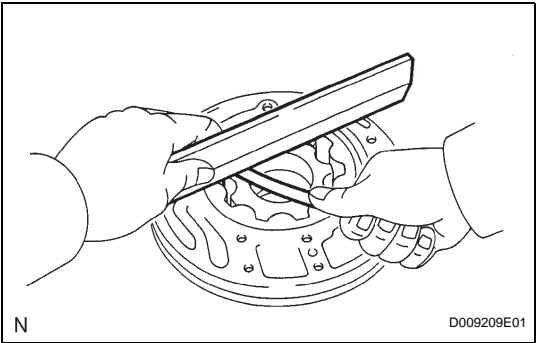
**Maximum tip clearance:**

**0.15 mm (0.0059 in.)**

If the tip clearance is greater than the maximum, replace the oil pump body sub-assembly.



AX



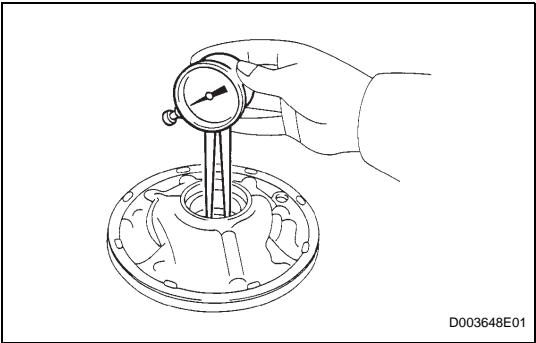
- (c) Using a straightedge and feeler gauge, measure the side clearance of both gears.

**Standard side clearance:**  
0.02 to 0.05 mm (0.0008 to 0.0020 in.)  
**Maximum side clearance:**  
0.05 mm (0.0020 in.)  
**Standard drive gear thickness**

Mark	Thickness
1	10.690 to 10.699 mm (0.4209 to 0.4212 in.)
2	10.700 to 10.709 mm (0.4213 to 0.4216 in.)
3	10.710 to 10.720 mm (0.4217 to 0.4220 in.)
4	10.721 to 10.730 mm (0.4221 to 0.4224 in.)
5	10.731 to 10.740 mm (0.4225 to 0.4228 in.)

**Standard driven gear thickness**

Mark	Thickness
1	10.690 to 10.699 mm (0.4209 to 0.4212 in.)
2	10.700 to 10.709 mm (0.4213 to 0.4216 in.)
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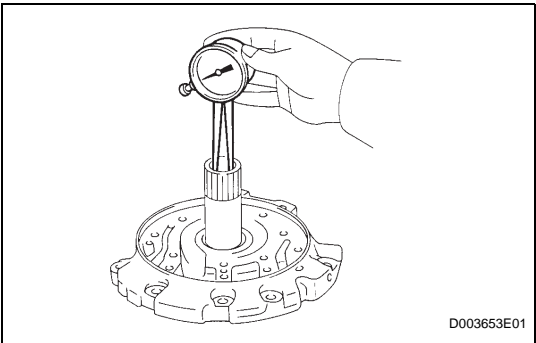


**3. INSPECT FRONT OIL PUMP AND GEAR BODY SUB-ASSEMBLY**

- (a) Using a caliper gauge, measure the inside diameter of the oil pump body bush.

**Standard inside diameter:**  
38.11 to 38.14 mm (1.5005 to 1.5015 in.)  
**Maximum inside diameter:**  
38.19 mm (1.5035 in.)

If the inside diameter is greater than the maximum, replace the oil pump body sub-assembly.



**4. INSPECT STATOR SHAFT ASSEMBLY**

- (a) Using a caliper gauge, measure the inside diameter of the stator shaft bushes.

**Standard inside diameter:**  
20.50 to 21.53 mm (0.8465 to 0.8475 in.)  
**Maximum inside diameter:**  
21.57 mm (0.8492 in.)

If the inside diameter is greater than the maximum, replace the stator shaft assembly.

## REASSEMBLY

### 1. INSTALL FRONT OIL PUMP OIL SEAL

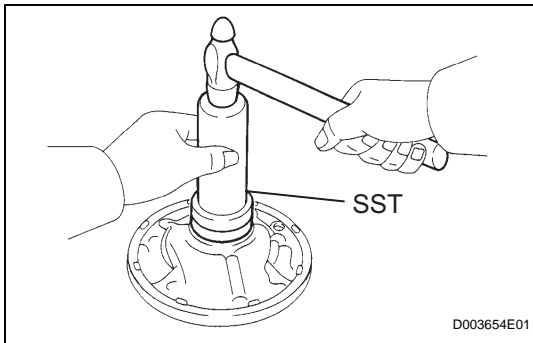
- (a) Using SST, install a new oil seal to the pump.

**SST 09350-32014 (09351-32140)**

**HINT:**

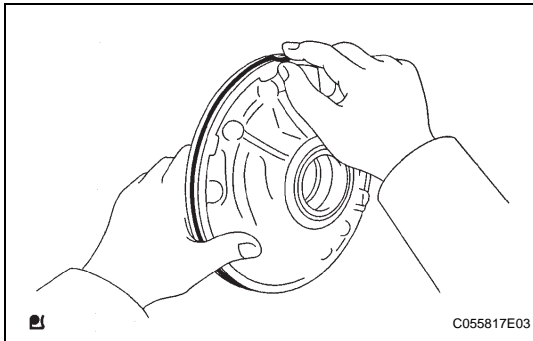
The seal end should be flush with the outer edge of the oil pump.

- (b) Coat the lip of the oil seal with petroleum jelly.



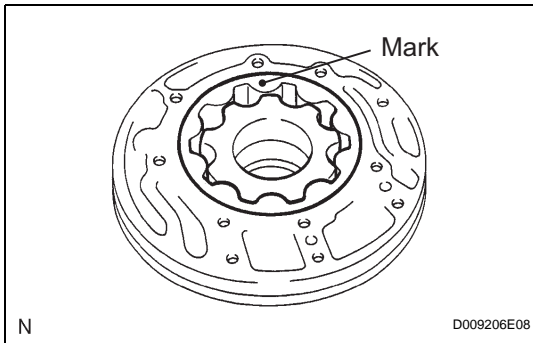
### 2. INSTALL FRONT OIL PUMP BODY O-RING

- (a) Coat a new O-ring with ATF, and install it to the oil pump body.



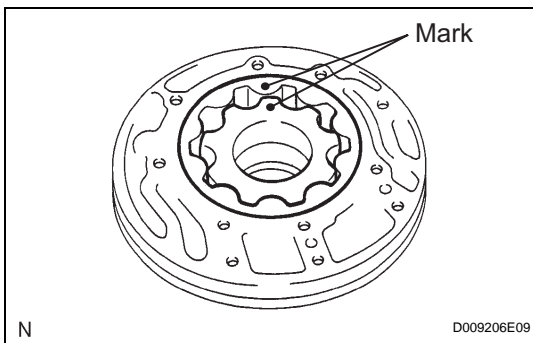
### 3. INSTALL FRONT OIL PUMP DRIVEN GEAR

- (a) Coat the front oil pump driven gear with ATF, and install it to the oil pump body with the marked side facing up.



### 4. INSTALL FRONT OIL PUMP DRIVE GEAR

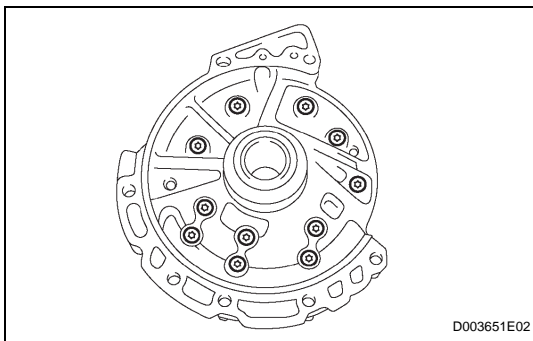
- (a) Coat the front oil pump drive gear with ATF, and install it to the oil pump body with the marked side facing up.

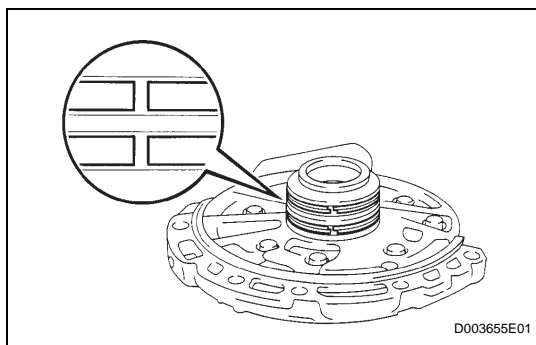


### 5. INSTALL STATOR SHAFT ASSEMBLY

- (a) Set stator shaft by aligning each bolt hole.
- (b) Using a T30 "torx" socket, install the 11 bolts.

**Torque: 9.8 N\*m (100 kgf\*cm, 87 in.\*lbf)**



**6. INSTALL CLUTCH DRUM OIL SEAL RING****NOTICE:**

**Do not expand the ring ends excessively.**

(a) Install the 2 clutch drum oil seal rings.

**7. INSPECT OIL PUMP ASSEMBLY (See page [AX-219](#))**